Job Risk Analysis

Name(s) of Risk Team Members: P. Cirnigliaro, J. Drozd, G. Heppner, J. Wilke, R.Zapasek	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Hi-Pot Testing Job Number or Job Identifier: JRA 18-05	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Hi-Pot DC and AC cables at 1000V@1mA in the A18 House during cold snake installation, 3/26/05.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedures List (optional): Approved by: *E. Lessard* Date: 4-19-2005 Rev. #: 0	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple

Stressors (if applicable, please list all):	Reason for Revision (if applicable):	Comments: Distributed to Group's TS for safety discussion.

				Before Additional Controls							After Additional Controls						
Job Step / Task	Hazard	Control(s)	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	Control(s) Added to Reduce Risk	**Stressors Y/N**	**# of People A**	**Frequency B**	**Severity C**	**Likelihood D**	**Risk* AxBxCxD**	% Risk Reduction
Drive to and from A-18 house	Highway accidents	Procedures, training.	N	2	2	3	2	24								
Working within AGS berm.	Radiation	Procedures, training, permits.	N	2	2	1	1	4								
Working in AGS ring.	Radiation	Procedures, training, permits.	N	1	2	1	1	2								
Safety watch in AGS ring, prevent local access during Hi-Pot. Repetitive process performed as required.	Exposure to electrical shock (1000 V @ 1mA)	Procedures, radio communications.	N	1	2	3	2	12	See Note 1	N	1	2	2	2	8	33%
Connect Hi-Pot device to cable. Repetitive process performed as required.	Exposure to electrical shock (1000 V @ 1mA)	Procedures, training, work planning, use of PPE as per NFPA 70E. Second person stands by for emergency response.	N	1	2	3	2	12	See Note 1	N	1	2	2	2	8	33%

Safety watch in A-18 house, notify personnel in AGS that Hi-Pot is about to be performed, prevent local access. Repetitive process performed as required.	Exposure to electrical shock (1000 V @ 1mA)	Procedures, radio communications.	N	1	2	3	2	12	See Note 1	N	1	2	2	2	8	33%
Perform Hi-Pot test. Repetitive process performed as required.	Exposure to electrical shock (1000 V @ 1mA)	Procedures, training, work planning, use of PPE as per NFPA 70E. Second person stands by for emergency response.	N	1	2	3	2	12	See Note 1	N	1	2	2	2	8	33%
Disconnet Hi-Pot device from cable. Repetitive process performed as required.	Exposure to electrical shock (1000 V @ 1mA)	Procedures, allow Hi-pot device to discharge to zero V before removing leads, work planning training, use of PPE as per NFPA 70E. Second person stands by for emergency response.	N	1	2	3	2	12	See Note 1	N	1	2	2	2	8	33%

Further Description of Controls Added to Reduce Risk:

NOTE 1: Full compliance with NFPA 70E was adopted by the C-AD in December 2005. NFPA 70E prescribes protective clothing to protect against shock and arc blast; thus reducing the severity and likelihood of an injury. It also prescribes training, which is currently fulfilled by taking the 2005 version of Electrical Safety 1 and by attending the C-AD 3-hour classroom course on electrical safety rules and PPE.

*Risk:	0 to 20	21 to 40	41-60	61 to 80	81 or greater
	Negligible	Acceptable	Moderate	Substantial	Intolerable